



CONNECTED AMBULANCE SYSTEMS

Always-on connectivity from pickup to hospital — even taem long rod wey nogat network
Military-grade bonded Starlink + 5G/4G architecture for uninterrupted ambulance operations

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EXECUTIVE SUMMARY

Edge Spark® ensuring continuous GPS, telemetry and live video from pickup to hospital — even in zero-coverage zones

Why It Matters

Eliminates communication failures during cyclones, volcanic ash, inter-island transfers, marine ambulance transfers + outer island ATCs and aeromedical transfers

Supports faster triage, real-time specialist input and improved hospital load balancing

Proven uptime

99.5%+ using bonded Starlink + 5G/4G

The Outcome

A fully connected ambulance fleet that reduces delays, improves patient outcomes, strengthens command centre coordination and increases EMS operational reliability across all terrains. Addresses GPS loss around Black Sand (Efate), Lenakel Hills, Pentecost Cliffs. Supports ProMedical Clinical Desk + Vila Central Hospital ED load balancing

Seamless Integration

Installs in 60 minutes per vehicle

No changes to OEM wiring

Fully API-ready with no modification to dispatch software

Scalable for district and country wide EMS rollouts

Internal Router

EN61000 Electromagnetic Compatibility Certification



STARLINK



5G/4G





NETWORK
EQUITY

edgespark

secure / scalable / survivable

OVERVIEW

STARLINK INTEGRATED
FIELD TESTED
MILITARY GRADE
VEHICLE MOUNTED

CONNECTIVITY FOR EVERY
AMBULANCE

Field tested
Always-on
On-the-move connectivity



STARLINK



5G/4G

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NETWORK
EQUITY



AMBULANCE CHALLENGES IN VANUATU

Edge Spark® connectivity can create a platform of solutions

Reduces loss of ambulance telemetry and dispatch data due to network gaps

Faster triage, faster dispatch and improved patient outcomes

Live video from ambulance to command centre

Continuous GPS + telemetry even in zero-network zones

Seamless switch between Starlink / 5G / 4G with no dropouts

“On-the-Move” connectivity for the full emergency run

**Edge Spark® supports operational needs of remote villages and outer islands,
municipal EMS teams and hospital emergency departments**



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FLEET INTEGRATION & DEPLOYMENT

Fleet integration and deployment enables rapid, coordinated rollout of Edge Spark® units across diverse vehicle fleets, ensuring consistent connectivity and operational readiness

Systems are preconfigured for plug-and-play installation, allowing seamless mounting on ambulances, 4WDs and mobile command units

Centralised monitoring supports real-time performance oversight, while modular hardware enables flexible redeployment across high-priority zones

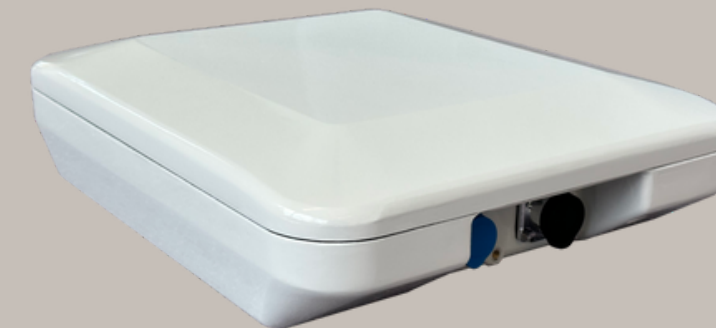
Deploys on Toyota LandCruiser Troop Carriers + Kia ambulances commonly used in Vanuatu



Scaling ambulance fleets
Expanding district or
state command centres

Powered from 12V/24V
ambulance system
Minimal load

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TECHNICAL INTEGRATION WITH VANUATU AMBULANCE SYSTEMS

API-ready
No change needed to existing dispatch software

API-ready integration enables seamless data exchange with existing dispatch systems, requiring no software changes. It connects instantly, maintaining full compatibility while enhancing operational capability and workflow efficiency

EdgeSpark installs without modifying OEM wiring

Compatible with any on-board hardware

The system connects effortlessly to existing vehicle electronics, sensors and communications equipment without modification, ensuring seamless integration across all fleet types

Internal Router
EN61000 Electromagnetic Compatibility Certification

Setup takes under 60 minutes per vehicle

Enabling rapid deployment. The system mounts easily, configures automatically, and becomes operational immediately without disrupting existing fleet operations

EdgeSpark requires no body modification or OEM wiring changes



CURRENT CHALLENGES

- Black spots in rural villages, remote islands, and mountain corridors
- Network congestion or unavailability during heavy rain, power outages and emergencies
- No connectivity during tropical cyclones & flash flooding
- Difficulty transmitting patient data while vehicles are moving
- Delays in dispatching specialist support due to connectivity gaps

SOLUTIONS

- LEO satellite + 5G/4G bonded signal avoids dropouts
- Continuous comms from pickup to hospital
- Vehicle-mounted Connect Pod = real “Connected Ambulance”
- Supports Starlink Professional (32-country smooth roaming)
- Field and emergency services tested military grade routing, data protection, EMR integration ready





NETWORK
EQUITY



secure / scalable / survivable

DISASTER PREPAREDNESS



Realtime Coordination with ProMedical Command Centre / VEOC activation

Supports mass-casualty command centre load
balancing

Reduced ambulance turnaround time

Live patient vitals transmission

On-the-move telemedicine

Continuous stable communications in floods,
landslides, cyclones, storm surge related disruption
ash fallout disrupting towers and road closure
events

ProMedical Command Centre activation

Marine evacuations

Inter-island sat roaming

In mass-casualty events mobile networks often fail
Edge Spark® Connect Pod™ ensures the
ambulance network remains operational enabling
coordinated live triage and hospital load balancing

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FIRST RESPONDERS TO MAJOR CLIMATE EVENTS

Edge Spark® Connectivity comes into its own in high risk areas

Suggested Test Routes

Vila → North Efate (road black spots)

Luganville → West Coast Santo

Tanna – Lenakel to Whitegrass Airport (support to Lenakel Hospital transfers)

Pentecost landslide-risk coasts

Scenario

A landslide cuts off 4G/5G connectivity for several hours. An ambulance responding to a trauma call is unable to transmit vitals or GPS location to the command centre. Dispatch could not coordinate with the nearest trauma unit. Opportunity with Connect Pod:

Satellite + bonded 5G link provides uninterrupted telemetry

Live video sent directly to medical command / Specialist advice delivered before patient arrival

Ambulance turnaround time reduced / The trauma unit was pre-alerted and ready on arrival

Outcome:

Faster triage, faster mobilisation, and uninterrupted situational awareness despite total network collapse.





SHARED VISION UNITED ACTION

Our partnership delivers a highly reliable, field-proven connectivity solution specifically for Vanuatu EMS operations.

Network Equity and Edge Spark® combine operational experience, technical capability and deployment support. This supports ambulance fleets maintaining uninterrupted communication in the most challenging terrain and network conditions

Edge Spark® provides field and emergency services tested military grade, on-the-move connectivity with bonded satellite/5G/4G links, ensuring uptime even in black spots, disaster zones and high-congestion areas

This enables command centres to retain full visibility of fleets, transmit live patient data and coordinate hospital load balancing without interruption

For ambulance operators, the value is clear. Reduced communication failures, faster triage decisions, improved dispatch accuracy and more predictable operational performance across the entire emergency run



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THE COMPLETE PACKAGE

DATA SECURE

EASE OF ACCESS

MOBILE OPTIONS

CONNECT™

Edge Spark® Connect™ makes LEO and 5G bonded connectivity fast and easy to deploy. Edge Spark® Connect™ integrates a Starlink terminal, 5G modem, enterprise grade router, and Wi-Fi access point inside a ruggedised, weatherproof enclosure.



Up to 250 devices can connect through one Edge Spark® Connect™ unit, but we recommend one unit per 100 people for equitable and fast internet access.

CONNECT LITE™

Portable connectivity for small teams.
Edge Spark® Connect™ models share a common technology core. Each model is optimised for the size, weight, and power constraints of different operating models and environments.



Lightweight connectivity
Network access to dispersed groups

WEATHERPROOF AND SUITABLE FOR COASTAL AND MOUNTAIN CONDITIONS COMMON TO VANUATU



THE COMPLETE PACKAGE

CONNECT POD™

Enable on-the-move connectivity for any vehicle. Edge Spark® Connect Pod transforms any vehicle into an on the move communications node.
Powered directly from 12V or 24V vehicle source



Any vehicle as a node
Internet on the move

SOLAR GENERATOR™

Edge Spark® Solar Generator creates a source of battery power in the harshest environments on earth. Deployable and fully scalable, powers Edge Spark® product off-grid with this modular, solar blanket powered generator



Deployable power source
Withstand harsh conditions

WEATHERPROOF AND SUITABLE FOR COASTAL AND MOUNTAIN CONDITIONS COMMON TO VANUATU



HOW WE WORK

Vanuatu-based field support and capability development

We provide a streamlined procurement and deployment model tailored for ambulance fleets

Edge Spark® installs in under 60 minutes per vehicle without affecting OEM warranties

Bonded satellite cellular architecture delivers 99.5%+ uptime across all terrains

Service reliability is ensured through clear SLAs and optional AMCs Vanuatu-based field support

Integration requires no software changes, enabling immediate operational benefits and a low-risk, scalable upgrade path for command-centre and fleet connectivity

Internal Router

EN61000 Electromagnetic Compatibility Certification



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ABOUT NETWORK EQUITY



WAYNE NICHOLAS

Founder

Network Equity designs integrated programs that extend digital access to communities of all sizes, supported by high-reliability connectivity that enables participation and wellbeing in remote settings. Our work spans health, education, disaster resilience and livelihoods, combining practical technology deployment with community-led implementation.

All programs are modular, scalable and rapid to adopt, ensuring underserved communities gain lasting digital access, capability and inclusion.

Wayne is a senior practitioner 35+ years in remote operations, digital inclusion and complex access support.

Planning focus: health access, cyclone resilience & connected emergency services across Vanuatu's islands.

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KEEP CONNECTED WITH US

RFQ, pilot site selection and deployment planning

Executive Engagements

Wayne Nicholas

Founder

ceo@fncprojects.com

Commercial Implementation

Pat Brady

Commercial Officer

pbrady@fncprojects.com

www.fncprojects.com

Network Equity is a Social Enterprise of FNC Projects (Australia)



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EQUITY**

